MICHIGAN AIRPORT DEVELOPMENT AID PROGRAM

FEDERAL/STATE/LOCAL FOR

OWOSSO COMMUNITY AIRPORT OWOSSO, MICHIGAN



December 3, 2013

For the years **2014 – 2023**

Submitted by:

Richard Musson, Chairman, Shiawassee Airport Board

Prepared by:

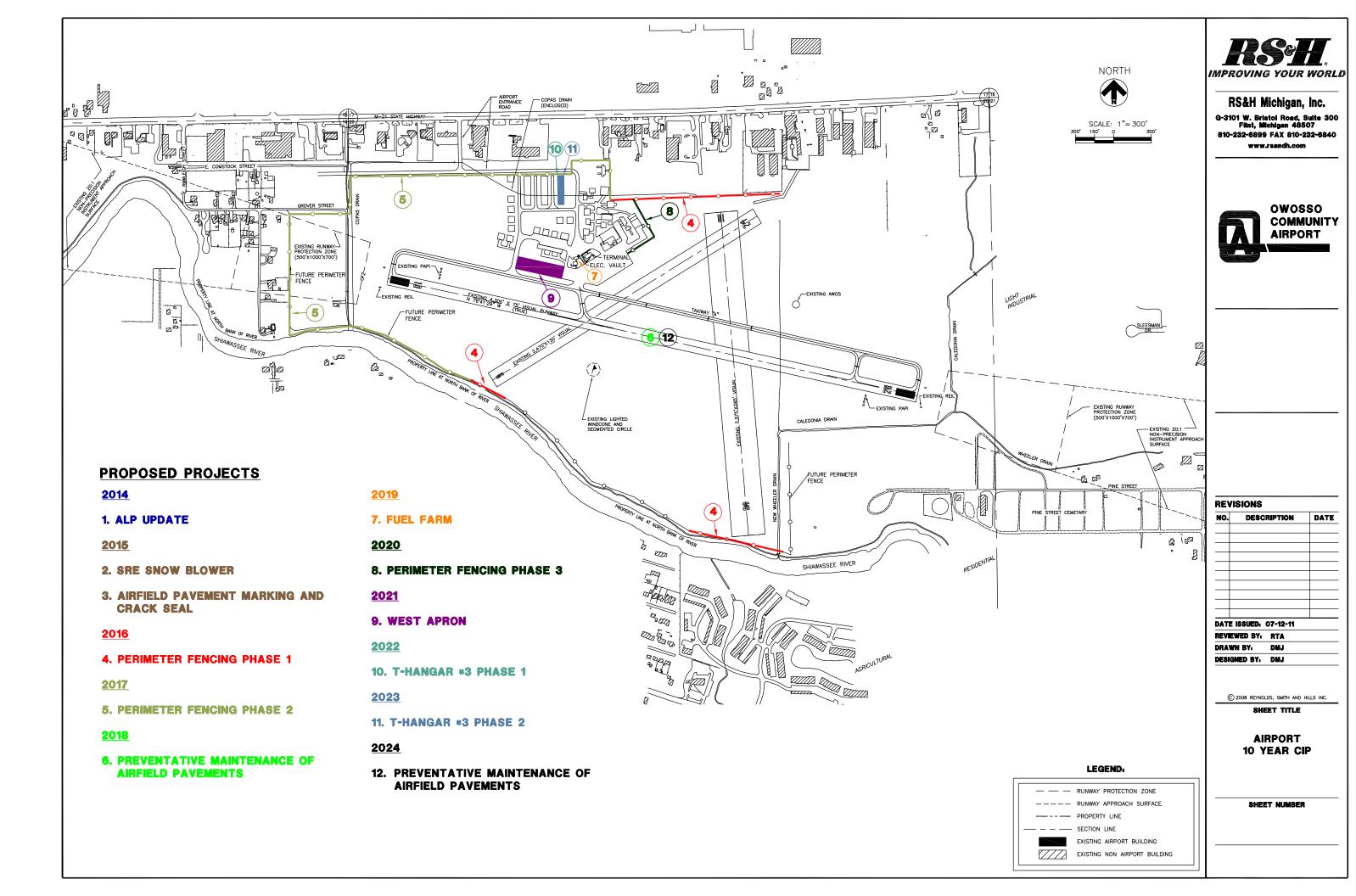
RSH

Reynolds, Smith and Hills, Inc. G-3101 W. Bristol Road Flint, Michigan 48507

MICHIGAN STATE BLOCK GRANT PROGRAM TEN-YEAR AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2014* to FY-2023 *ACIP includes current development year (2013 already programmed - minor changes acceptable)

			*A(CIP includes curre	nt development	year (2013 already programmed -	minor changes	acceptable)			
Airport Name:	Owosso Community Airport	Airport Identifier:	RNP							Date prepared:	8/9/2012 rev. 10/1/2012
Associated City:	Owosso , Michigan									Prepared By:	RS and H BA/DJ
Sponsor:	Shiawassee Airport Board	Airport Code: B								Sponsor email address & phone:	owossocommunityairport@verizon.net 989-725-1969
				_						Tim Harwood, Airport Manager	
Development Year	Project Description	Shown on ALP? (Yes or No)	ACIP Code**	NPIAS Priority Rating**	Federal Entitlements	Federal Federal Apportionment Discretionary	State	Local	Total	Remarks/Item Justi	ication - Provide as much detail as possible.
2014	Update ALP	NA	PL PL MA	66	\$121,500		\$6,750	\$6,750	\$135,000	The last update to the ALP was in	1990. Only 3 sheets of the ALP are in CAD
2015	SRE Snow Blower	NA	ST EQ SN	47	\$81,000		\$4,500	\$4,500	\$90,000	The present equipment cannot pe	rform its intended purpose and needs to be replaced.
2015	Airfield Crack Sealing and Pavement Marking	NA	RE RW IM	70	\$67,500		\$3,750	\$3,750	\$75,000	Remark existing Runway and Tax	iway pavement markings and seal cracks as needed.
2016	Perimeter Fencing Phase 1	No	ST EQ SE	41	\$116,000		\$8,333	\$8,334	\$166,667	Fencing is required to prevent run	way incursions by vehicles, pedestrians, and wildlife
2017	Perimeter Fencing Phase 2	No	ST EQ SE	41	\$150,000		\$8,333	\$8,334	\$166,667	Fencing is required to prevent run	way incursions by vehicles, pedestrians, and wildlife
2018	Preventative Maintenance of Airfield Pavements	Yes	RE RW IM	70	\$150,000		\$8,333	\$8,334	\$166,667	Scheduled maintenance and pave	ment marking will be required
2019	Expand Fuel Service w/ Jet A	NA	OT OT FF	19	\$90,000		\$5,000	\$5,000	\$100,000	The addition of Jet A will allow the	sponsor to fuel aircraft presently using the airfield
2020	Perimeter Fencing Phase 3	No	ST EQ SE	41	\$150,000		\$8,333	\$8,334	\$166,667	Fencing is required to prevent run	way incursions by vehicles, pedestrians, and wildlife
2021	Expand Apron West	Yes	CA AP EX	46	\$150,000	\$165,000	\$17,500	\$17,500	\$350,000	Additional hold space	
2022	Construct T-Hangar 3 Phase 1 Design & Site Prep	Yes	ST BD MS	32	\$150,000		\$8,333	\$8,334	\$166,667	Hangar is necessary to provide so	surce of revenue and to accommodate demand
2023	Construct T-Hangar 3 Phase 2	Yes	ST BD MS	32	\$150,000		\$8,333	\$8,334	\$166,667	Construction in Spring, 2020	
2024	Preventative Maintenance of Airfield Pavements	Yes	RE RW IM	70	\$150,000		\$8,333	\$8,334	\$166,667	Scheduled maintenance and pave	ment marking will be required
	TOTAL				\$1,526,000	\$165,000 \$0	\$95,833	\$95,838	\$1,916,669		

^{**}In accordance with FAA Order 5100.39A, Appendix 6 - Fields need to be completed



LOCATION: Owosso Community Airport

PROJECT DESCRIPTION:

Taxistreet 11

Reynolds, Smith and Hills, Inc.
Date Prepared: 26-Nov-13

Prepared By: DMJ

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PRELIMINARY PROJECT COST ESTIMATE File Name: 2010-7-26 tstreet11 COST.xls

TIELIMINATTI TROCECT COST ESTIMATE	The Name. 2010-7-20 Islieeli 1 0001.xis			
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Mobilization Safety and Security	LSUM LSUM	1	\$15,000.00 \$3,000.00	\$15,000.00 \$3,000.00
Unclassified Excavation Subbase Course, 12" Base Course, 6"	EACH CYD CYD	1,000 750 380	\$8.00 \$15.00 \$35.00	\$8,000.00 \$11,250.00 \$13,300.00
3" Bituminous Asphalt Pavement	TON	375	\$75.00	\$28,125.00
6" Underdrain Drainage Structure w/cover 12" RCP Pipe Pavement Marking Turfing Topsoil Subtotal 15% Contingency Total Preliminary Construction Cost		1,400 2 200 1 1.00 400	\$11.00 \$1,500.00 \$35.00 \$1,000.00 \$1,500.00 \$7.50	\$15,400.00 \$3,000.00 \$7,000.00 \$1,000.00 \$1,500.00 \$3,000.00 \$109,575.00 \$16,000.00 \$125,575.00
PROFESSIONAL SERVICES Construction Services	LS	1	\$12,600.00	\$12,600.00
TOTAL ESTIMATED PROJECT COST				\$138,000.00

Snow Removal Equipment Calculations Michigan State Block Grant Program - Non-Commercial Service *Except for the Notes sections, the darkly shaded areas will automatically calculate

		<u></u>				
	ommunity Airport	Associate		wosso, MI		
Annual Aircraft Operations (MDOT AERO will provide up	25,000	Average Source:	Annual Snow	fall (inches):		37.52
(INIDOT AERO WIII Provide up	on request, ii rieeded.)	Current MASP Cla		CH DH .)	BII	
Clearance Time per AC 150-520	0-30B (refer to Table 1-2)	Current MASI Cia	`	ours	ы	(refer to Table 36)
Drimon, Bunuay	Priority 1 (Cri	itical) Snow Remo	val Areas			
Primary Runway Designation:	4300 length (ft) x	75 width (ft)	=	322,500	sa ft	
Designation:	length (ft) x	width (ft)	=	•	sq. ft.	
Designation:	length (ft) x	width (ft)	=	0	sq. ft.	
Notes:			TOTAL	322,500		
Parallal Taxiway and ana a	r two principal connecting toxiu	(OVO				
Designation:	r two principal connecting taxiw 4300 length (ft) x	35 width (ft)	=	150,500	sa ft	
Designation:	length (ft) x	width (ft)	=	•	sq. ft.	
Designation:	length (ft) X	width (ft)	= [sq. ft.	
Designation:	length (ft) x	width (ft)	= L TOTAL	150,500	sq. ft.	
Notes:			TOTAL	130,300		
Terminal, Cargo, and/or Ge	neral Aviation Aprons (Critical ap	ron area assumed as 2	/3 of the apron)		
67 % Req' x	400 length (ft) x	100 width (ft)	=	26,800	sq. ft.	
67 % Req' x	length (ft) x	width (ft)	=		sq. ft.	
67 % Req' x 67 % Req' x	length (ft) x	width (ft) width (ft)	= -		sq. ft. sq. ft.	
	critical, written justification must be pr		TOTAL	26,800	15 4 . it.	
Notes:						
Other Critical Areas (i.e. eme	ergency service roads, ARFF acces ro	ads. NAVAIDs. & other	areas deemed	l essential)		
Describe:	length (ft) x	width (ft)	=		sq. ft.	
Describe:	length (ft) x	width (ft)	=		sq. ft.	
Describe:	length (ft) x	width (ft)	=		sq. ft.	
Describe:	length (ft) x	width (ft)	TOTAL	<u>0</u>	sq. ft.	
Notes:						
	Total	Priority 1 (Critical) A	rea	499,800	sq. ft.	
	Snow Density (u	using 1" of snow at 25 II	bs/cu ft.)	521	tons	
	Minimum snow	removal rate (70% eff	iciency)	248	tons/hr	
0	. Determine the m					
Snow Removal Equipment		ns Quantity		Requirements a	nd Assum	ptions
		1	Class I up to	•		
Rotary Plows (Chapter 2)	Snow Blower		(Refer to Tab	le 2-1 - Rotary Plo		
						ed based on tons/hr
				all > 30 " or > 10,0		apacity to blower) If operations and at
Displacement Plows (Chapter 6)	Plow	2	least 15" of s	now.		·
Snowsweepers (Chapter 8)	Sweeper	enter manually		pporting Equipment tions in accordance		
Carrier Vehicles (Chapter 5)	Front End Loader/Tractor	enter manually		pporting Equipment tions in accordance		
Above table based on AC 150/52	220-20, Chapter 6, Paragraph 38 (b &					.30,0220 20
If an airport requests more than the	eligible quantities of chart removal action	ment additional justification	in must be sub-	itted for determination	n of cliaibil	itv
	eligible quantities of snow removal equipn	nent, additional justificatio	n must be subm	itted for determination	on of eligibil	ity.
Sponsor Remarks:	eligible quantities of snow removal equipn se final determination of eligible SRE.	nent, additional justificatio	n must be subm	itted for determinatio	on of eligibil	ity.

Airport Snow Removal Equipment Inventory Sheet

Airport Name: Owosso Community Airport

The airport has the following snow removal equipment:

	Equipment Type Example: Blower	Make Example: Oshkosh	Model	Year	Capacity (Tons/hour)	Funding Source (Include AIP grant number)	Size of Equipment	MDOT Use Only
1	Plow Truck	Chevrolet	Kodiak	2009		B-26-0075-1408	10' Blade Plow	
2								
3								
4								
5								
6								
7								
8								
9								
10								

Signature of Airport Sponsor Representative, Date

LOCATION: Owosso Community Airport PROJECT DESCRIPTION: Perimeter Fencing Program			Reynolds, Smith and Hills, Inc. Date Prepared: Prepared By: DMJ Page 1 of 1	26-Nov-13
PRELIMINARY PROJECT COST ESTIMATE	r			
WORK ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
Phase 1 Construction Mobilization Safety and Security	LSUM LSUM	1	\$4,000.00 \$1,000.00	\$4,000.00 \$1,000.00
6' High Fence	LFT	3,000	\$25.00	\$75,000.00
6' High Gate	EACH	3	\$2,500.00	\$7,500.00
Subtotal 15% Contingency Phase 1 Total Preliminary Construction Cost				\$87,500.00 \$13,100.00 \$100,600.00
Phase 2 Construction Mobilization Safety and Security	LSUM LSUM	1	\$15,000.00 \$1,200.00	\$15,000.00 \$1,200.00
6' High Fence 10' High Fence	LFT LFT	5,000 1,000	*	\$100,000.00 \$25,000.00
6' High Gate - Powered 6' High Gate	EACH EACH	2 4	\$10,000.00 \$2,500.00	\$20,000.00 \$10,000.00
Clear and Grub - Heavy Brush Clear and Grub - Light Brush	ACRE ACRE	0.4 1.5	\$2,500.00 \$1,000.00	\$1,000.00 \$1,500.00
Subtotal 15% Contingency Phase 2 Total Preliminary Construction Cost				\$173,700.00 \$26,100.00 \$199,800.00
Phase 3 Construction Mobilization Safety and Security	LSUM LSUM	1	\$15,000.00 \$1,200.00	\$15,000.00 \$1,200.00
6' High Fence 10' High Fence	LFT LFT	2,000 1,000		\$40,000.00 \$25,000.00
6' High Gate	EACH	4	\$2,500.00	\$10,000.00
Clear and Grub - Heavy Brush Clear and Grub - Light Brush	ACRE ACRE	0.4 1.0	\$2,500.00 \$1,000.00	\$1,000.00 \$1,000.00
Subtotal 15% Contingency Phase 3 Total Preliminary Construction Cost				\$93,200.00 \$14,000.00 \$107,200.00
PROFESSIONAL SERVICES Design Services Construction Services - Phase 1 Construction Services - Phase 2 Construction Services - Phase 3	LS LS LS LS	1 1 1 1	\$41,000.00 \$8,000.00 \$16,000.00 \$9,000.00	\$41,000.00 \$8,000.00 \$16,000.00 \$9,000.00
TOTAL ESTIMATED PROGRAM COST				\$481,600.00